

## AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

[00060] In other words, the detection and sinking of sink instructions, as well as hoist instructions, should not violate any data dependencies or, for example, control dependencies, indicated by a dependence graph of the sequential application program. ~~In other words, compliance with a dependence graph ensures that program-threads generated from the sequential application program.~~ In one embodiment, program-threads maintain sequential semantics of the original program and enforce dependencies between program-thread iterations corresponding to a PPS loop of the sequential application program.